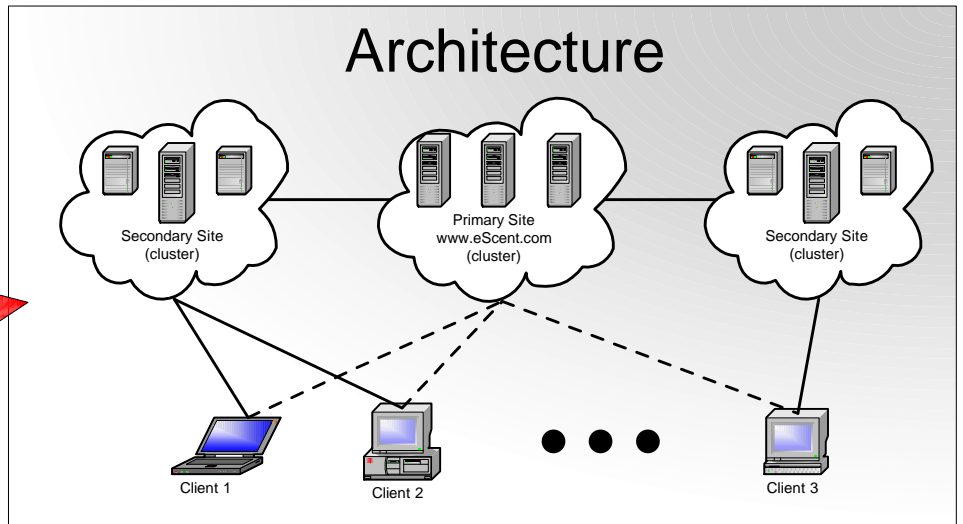


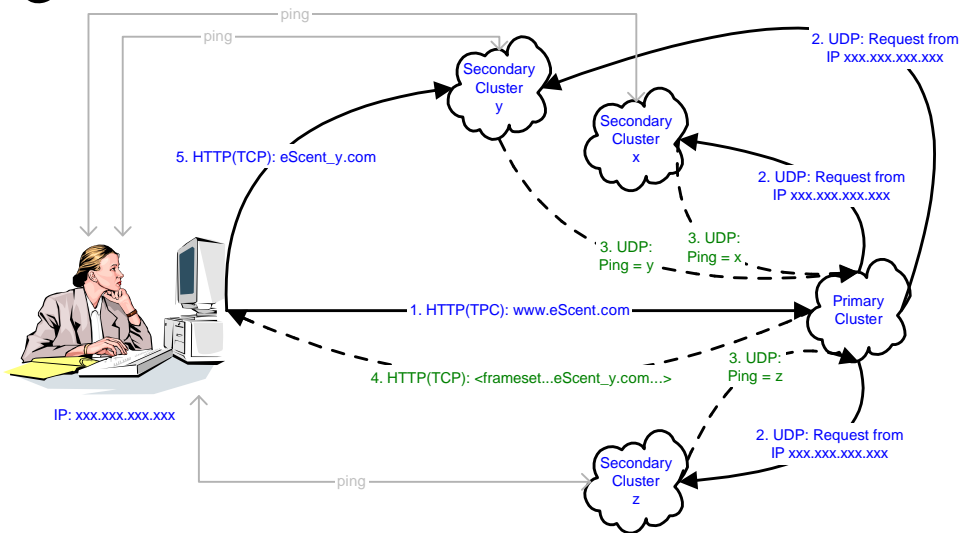
eScent.com

Powered by:
BEA Weblogic 6.0
MS SQL Server 2000

Architecture



Communication



A typical sequence of events:

1. The client requests a connection to www.eScent.com (which points to the primary cluster R)
2. R notifies all secondary clusters about the request via UDP (also possible by TPC, GMS, but not necessary)
3. Secondary clusters ping the client and calculate round-trip latencies, sending them back to R.
4. R chooses between the first several responses and directs the client to one of the secondary clusters.

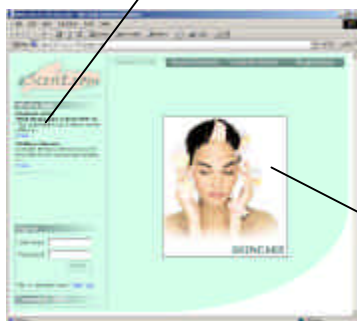
Advantages:

1. Multicasting client requests through UDP proves to be fast, efficient and with very small overhead (Reliability). Also helps for updating the distributed database (no need to close sites!).
2. Framesets ensure that even in case of secondary cluster failure, the client will be connected to another one with minimum losses, like shopping bag information (Availability).

Cutting-edge Tools

State-of-the-art Technology

Implementation



W3C DOM 2 Web standard!

Motion-enabled starting page!

BEA Weblogic 6.0 Beta
Microsoft SQL Server
Borland JBuilder 4.0
Allaire Homesite 4.51
Macromedia Ultradev 1.0
Macromedia Flash 5.0
Adobe Photoshop 5.5
Xara Webstyle 1.2

Weblogic 6.0 JSP 1.1 server-side scripting



DHTML exploited to full extend!

Designed and developed by Kamen Yotov
Department of Computer Science
Cornell University